

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:**

Application Serial Number: 10/564,429  
Source: 1FwP  
Date Processed by STIC: 1/20/06

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06



IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/564,429

DATE: 01/20/2006  
TIME: 12:07:31

Input Set : E:\son084.txt  
Output Set: N:\CRF4\01202006\J564429.raw

3 <110> APPLICANT: BUSCHLE, MICHAEL  
4 FRISCH, JURGEN  
5 KLADE, CHRISTOPH  
6 LINGNAU, KAREN  
7 ZAUNER, WOLFGANG  
8 ZETTLMEISSL, GERD  
10 <120> TITLE OF INVENTION: HCV vaccines  
12 <130> FILE REFERENCE: SONN:084US  
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/564,429  
C--> 14 <141> CURRENT FILING DATE: 2006-01-11  
14 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/007540  
15 <151> PRIOR FILING DATE: 2004-07-09  
17 <150> PRIOR APPLICATION NUMBER: EP 04450062.7  
18 <151> PRIOR FILING DATE: 2004-07-11  
20 <150> PRIOR APPLICATION NUMBER: EP 03450171.8  
21 <151> PRIOR FILING DATE: 2004-03-12  
23 <160> NUMBER OF SEQ ID NOS: 156  
25 <170> SOFTWARE: PatentIn version 3.1  
27 <210> SEQ ID NO: 1  
29 <211> LENGTH: 15  
31 <212> TYPE: PRT  
33 <213> ORGANISM: HCV vaccines  
35 <400> SEQUENCE: 1  
37 Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala  
38 1 5 10 15  
40 <210> SEQ ID NO: 2  
42 <211> LENGTH: 17  
44 <212> TYPE: PRT  
46 <213> ORGANISM: HCV vaccines  
48 <400> SEQUENCE: 2  
50 Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala  
51 1 5 10 15  
53 Thr  
56 <210> SEQ ID NO: 3  
58 <211> LENGTH: 15  
60 <212> TYPE: PRT  
62 <213> ORGANISM: HCV vaccines  
64 <400> SEQUENCE: 3  
66 Ala Ala Trp Tyr Glu Leu Thr Pro Ala Glu Thr Thr Val Arg Leu  
67 1 5 10 15  
69 <210> SEQ ID NO: 4  
71 <211> LENGTH: 16  
73 <212> TYPE: PRT

Does Not Comply  
Corrected Diskette Needed

PP 6-9

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,429

DATE: 01/20/2006

TIME: 12:07:31

Input Set : E:\son084.txt  
Output Set: N:\CRF4\01202006\J564429.raw

75 <213> ORGANISM: HCV vaccines  
77 <400> SEQUENCE: 4  
79 Ala Ala Trp Tyr Glu Leu Thr Pro Ala Glu Thr Thr Val Arg Leu Arg  
80 1 5 10 15  
82 <210> SEQ ID NO: 5  
84 <211> LENGTH: 15  
86 <212> TYPE: PRT  
88 <213> ORGANISM: HCV vaccines  
90 <400> SEQUENCE: 5  
92 Ala Phe Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val  
93 1 5 10 15  
95 <210> SEQ ID NO: 6  
97 <211> LENGTH: 15  
99 <212> TYPE: PRT  
101 <213> ORGANISM: HCV vaccines  
103 <400> SEQUENCE: 6  
105 Ala Gly Ala Ala Trp Tyr Glu Leu Thr Pro Ala Glu Thr Thr Val  
106 1 5 10 15  
108 <210> SEQ ID NO: 7  
110 <211> LENGTH: 9  
112 <212> TYPE: PRT  
114 <213> ORGANISM: HCV vaccines  
116 <400> SEQUENCE: 7  
118 Ala Arg Leu Ile Val Phe Pro Asp Leu  
119 1 5  
121 <210> SEQ ID NO: 8  
123 <211> LENGTH: 20  
125 <212> TYPE: PRT  
127 <213> ORGANISM: HCV vaccines  
129 <400> SEQUENCE: 8  
131 Ala Arg Leu Ile Val Phe Pro Asp Leu Gly Val Arg Val Cys Glu Lys  
132 1 5 10 15  
134 Met Ala Leu Tyr  
135 20  
137 <210> SEQ ID NO: 9  
139 <211> LENGTH: 10  
141 <212> TYPE: PRT  
143 <213> ORGANISM: HCV vaccines  
145 <400> SEQUENCE: 9  
147 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu  
148 1 5 10  
150 <210> SEQ ID NO: 10  
152 <211> LENGTH: 13  
154 <212> TYPE: PRT  
156 <213> ORGANISM: HCV vaccines  
158 <400> SEQUENCE: 10  
160 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Ala Ala Thr  
161 1 5 10  
163 <210> SEQ ID NO: 11

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,429

DATE: 01/20/2006

TIME: 12:07:31

Input Set : E:\son084.txt

Output Set: N:\CRF4\01202006\J564429.raw

165 <211> LENGTH: 16  
167 <212> TYPE: PRT  
169 <213> ORGANISM: HCV vaccines  
171 <400> SEQUENCE: 11  
173 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Pro Ser Val Ala Ala Thr  
174 1 5 10 15  
176 <210> SEQ ID NO: 12  
178 <211> LENGTH: 16  
180 <212> TYPE: PRT  
182 <213> ORGANISM: HCV vaccines  
184 <400> SEQUENCE: 12  
186 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val  
187 1 5 10 15  
189 <210> SEQ ID NO: 13  
191 <211> LENGTH: 18  
193 <212> TYPE: PRT  
195 <213> ORGANISM: HCV vaccines  
197 <400> SEQUENCE: 13  
199 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val  
200 1 5 10 15  
202 Ala Ala  
205 <210> SEQ ID NO: 14  
207 <211> LENGTH: 19  
209 <212> TYPE: PRT  
211 <213> ORGANISM: HCV vaccines  
213 <400> SEQUENCE: 14  
215 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val  
216 1 5 10 15  
218 Ala Ala Thr  
221 <210> SEQ ID NO: 15  
223 <211> LENGTH: 9  
225 <212> TYPE: PRT  
227 <213> ORGANISM: HCV vaccines  
230 <400> SEQUENCE: 15  
232 Ala Tyr Ser Gln Gln Thr Arg Gly Leu  
233 1 5  
235 <210> SEQ ID NO: 16  
237 <211> LENGTH: 10  
239 <212> TYPE: PRT  
241 <213> ORGANISM: HCV vaccines  
244 <400> SEQUENCE: 16  
246 Ala Tyr Ser Gln Gln Thr Arg Gly Leu Leu  
247 1 5 10  
249 <210> SEQ ID NO: 17  
251 <211> LENGTH: 9  
253 <212> TYPE: PRT  
255 <213> ORGANISM: HCV vaccines  
258 <400> SEQUENCE: 17  
260 Cys Ile Asn Gly Val Cys Trp Thr Val

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,429

DATE: 01/20/2006

TIME: 12:07:31

Input Set : E:\son084.txt  
Output Set: N:\CRF4\01202006\J564429.raw

261 1 5  
263 <210> SEQ ID NO: 18  
265 <211> LENGTH: 15  
267 <212> TYPE: PRT  
269 <213> ORGANISM: HCV vaccines  
272 <400> SEQUENCE: 18  
274 Asp Ile Leu Ala Gly Tyr Gly Ala Gly Val Ala Gly Ala Leu Val  
275 1 5 10 15  
277 <210> SEQ ID NO: 19  
279 <211> LENGTH: 9  
281 <212> TYPE: PRT  
283 <213> ORGANISM: HCV vaccines  
286 <400> SEQUENCE: 19  
288 Asp Leu Met Gly Tyr Ile Pro Ala Val  
289 1 5  
291 <210> SEQ ID NO: 20  
293 <211> LENGTH: 9  
295 <212> TYPE: PRT  
297 <213> ORGANISM: HCV vaccines  
300 <400> SEQUENCE: 20  
302 Asp Leu Met Gly Tyr Ile Pro Leu Val  
303 1 5  
305 <210> SEQ ID NO: 21  
307 <211> LENGTH: 10  
309 <212> TYPE: PRT  
311 <213> ORGANISM: HCV vaccines  
314 <400> SEQUENCE: 21  
316 Asp Leu Met Gly Tyr Ile Pro Ala Val Gly  
317 1 5 10  
319 <210> SEQ ID NO: 22  
321 <211> LENGTH: 10  
323 <212> TYPE: PRT  
325 <213> ORGANISM: HCV vaccines  
328 <400> SEQUENCE: 22  
330 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly  
331 1 5 10  
333 <210> SEQ ID NO: 23  
335 <211> LENGTH: 12  
337 <212> TYPE: PRT  
339 <213> ORGANISM: HCV vaccines  
341 <400> SEQUENCE: 23  
343 Asp Leu Met Gly Tyr Ile Pro Ala Val Gly Ala Pro  
344 1 5 10  
346 <210> SEQ ID NO: 24  
348 <211> LENGTH: 12  
350 <212> TYPE: PRT  
352 <213> ORGANISM: HCV vaccines  
354 <400> SEQUENCE: 24  
356 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/564,429

DATE: 01/20/2006  
TIME: 12:07:31

Input Set : E:\son084.txt  
Output Set: N:\CRF4\01202006\J564429.raw

357 1 5 10  
359 <210> SEQ ID NO: 25  
361 <211> LENGTH: 13  
363 <212> TYPE: PRT  
365 <213> ORGANISM: HCV vaccines  
368 <400> SEQUENCE: 25  
370 Asp Leu Met Gly Tyr Ile Pro Ala Val Gly Ala Pro Leu  
371 1 5 10  
373 <210> SEQ ID NO: 26  
375 <211> LENGTH: 13  
377 <212> TYPE: PRT  
379 <213> ORGANISM: HCV vaccines  
382 <400> SEQUENCE: 26  
384 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
385 1 5 10  
387 <210> SEQ ID NO: 27  
389 <211> LENGTH: 14  
391 <212> TYPE: PRT  
393 <213> ORGANISM: HCV vaccines  
396 <400> SEQUENCE: 27  
398 Asp Leu Met Gly Tyr Ile Pro Ala Leu Val Gly Ala Pro Leu  
399 1 5 10  
401 <210> SEQ ID NO: 28  
403 <211> LENGTH: 9  
405 <212> TYPE: PRT  
407 <213> ORGANISM: HCV vaccines  
410 <400> SEQUENCE: 28  
412 Asp Leu Met Gly Tyr Ile Pro Ala Val  
413 1 5  
415 <210> SEQ ID NO: 29  
417 <211> LENGTH: 9  
419 <212> TYPE: PRT  
421 <213> ORGANISM: HCV vaccines  
424 <400> SEQUENCE: 29  
426 Asp Leu Met Gly Tyr Ile Pro Leu Val  
427 1 5  
429 <210> SEQ ID NO: 30  
431 <211> LENGTH: 11  
433 <212> TYPE: PRT  
435 <213> ORGANISM: HCV vaccines  
438 <400> SEQUENCE: 30  
440 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala  
441 1 5 10  
443 <210> SEQ ID NO: 31  
445 <211> LENGTH: 13  
447 <212> TYPE: PRT  
449 <213> ORGANISM: HCV vaccines  
452 <400> SEQUENCE: 31  
454 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu

10/564,429 6

<210> 154  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

<220>  
<221> MOD\_RES

<222> (1)..(11)  
<223> *insert this and which residue(s) Xaa's represent*

<400> 154

Xaa Glx Xaa Glx Glx Glx Glx Xaa Glx Xaa  
1 5 10

7  
RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/564,429

DATE: 01/20/2006  
TIME: 12:07:32

Input Set : E:\son084.txt  
Output Set: N:\CRF4\01202006\J564429.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:152; Xaa Pos. 1,3,7,9  
Seq#:153; Xaa Pos. 1,3,8,10  
Seq#:154; Xaa Pos. 1,3,9,11  
Seq#:155; Xaa Pos. 1,3,10,12  
Seq#:156; Xaa Pos. 1,3,11,13

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/564,429

DATE: 01/20/2006  
TIME: 12:07:32

Input Set : E:\son084.txt  
Output Set: N:\CRF4\01202006\J564429.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:2269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:0  
L:2288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:0  
L:2306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:0  
L:2325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155 after pos.:0  
L:2344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156 after pos.:0